

SECURITY INFORMATION

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY Italy

SUBJECT Test Results with Allied Carbon Steel Drills

PLACE ACQUIRED (BY SOURCE) --

DATE ACQUIRED (BY SOURCE) 18 Aug 54

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PROCESSED

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1. Our laboratory tested 10 carbon steel twist drills stamped "Allied U I T & F", which were manufactured in Italy. The drills were 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" and 1/4" in diameter. The package was marked, "Heat treated by 'Isoperm' Process No 13673, Tavalazzi-Sapim Patent."
2. A spark test indicated the drills 1/16" through 7/32" were water hardening carbon steel. The 1/4" drill was oil hardening carbon steel.
3. Although the package was marked "Chrome Steel" there was obviously a slight difference between the various sizes. Probably there was more chromium in the larger drill, sufficient to give oil hardening properties. Some of our competitors use a similar steel for carbon tools.
4. In general appearance, construction, hardness and performance the drills were acceptable. The drill test with the 1/8" drill gave the following results:

Make	Holes per Grind
Allied	87.5
US Produced	94.5

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Date Info

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twist
drills

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